INTERNATIONAL SEARCH REPORT

ternational Application No PCT/JP2004/004944

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60R16/02 H04L H04L12/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B60R HO4L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 4 156 151 A (BORRONI MARIO) 1 - 1122 May 1979 (1979-05-22) column 1, line 6 - line 19 column 2, line 49 - column 3, line 21 column 4, line 6 - line 34 abstract; figures 1-10 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention *E* earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 July 2004 02/08/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2

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INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2004/004944

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °							
X	JW SPECKS, A RAJNAK: "LIN Protocol, development tools and software interfaces for local interconnect networks in vehicles" 'Online! XP002287370 Retrieved from the Internet: URL:http://www.lin-subbus.org/frontend/kunden-pdf/w_specks_lin_baden-baden_paper.pdf > 'retrieved on 2000-10-06! page 4, paragraph 2 page 6, paragraph 4 - page 7, paragraph 1 page 23, paragraph 3; figures 4,19 abstract	1-11					
X	HANS-CHRISTIAN VON DER WENSE: "Introduction to LIN"'Online! XP002287371 Retrieved from the Internet: URL:http://www.lin-subbus.org/frontend/kunden-pdf/introduction_to_lin.pdf> 'retrieved on 2000-03-30! figures 6-8,15	1–11					
X A	US 5 990 573 A (GRANITZ RICHARD FRANCIS ET AL) 23 November 1999 (1999-11-23) column 2, line 24 - column 3, line 12; figures 1-8 abstract	2-11					
X A	US 6 420 797 B1 (ALBANESE RONALD P ET AL) 16 July 2002 (2002-07-16) column 2, line 66 - column 3, line 64; figures 1-6 abstract	1 2–11					
Α	US 2002/065594 A1 (SQUIRES BRADLEY C ET AL) 30 May 2002 (2002-05-30) abstract; figures 1-23	1-11					
Α	DE 197 39 410 C (VOLKSWAGEN BORDNETZE GMBH) 17 December 1998 (1998-12-17) abstract; figures 1-3	1-11					
A	US 5 670 845 A (BRASSINGTON DAVID ET AL) 23 September 1997 (1997-09-23) abstract; figures 1-3	1-11					
A	US 5 508 689 A (DEVLIN SHAUN S ET AL) 16 April 1996 (1996-04-16) abstract; figures 1-7	1-11					
A	US 6 485 155 B1 (DUMONT DANIEL ET AL) 26 November 2002 (2002-11-26) abstract; figures 1-7	. 1–11					

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No TCT/JP2004/004944

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4156151		22-05-1979	IT	1061720		30-04-1983
03 4130131	Α.	22.05.15/5	DE			08-12-1977
			ES	2724759		
				459448		16-05-1978
			FR	2353412		30-12-1977
			GB	1584581		11-02-1981
			JP	53017884		18-02-1978
			JP	59074149		19-05-1984
•			SE	415338		29-09-1980
			SE 	7706402	A 	05-12-1977
US 5990573	Α	23-11-1999	NONE			·
US 6420797	B1	16-07-2002	NONE			
US 2002065594	A1	30-05-2002	US	6421593	B1	16-07-2002
			US	2003130765		10-07-2003
	•		US	2003158640		21-08-2003
			US	2004024502		05-02-2004
			US	2003158638		21-08-2003
•			US	2003158635		21-08-2003
			US	2003171854		11-09-2003
			ÜS	2003163228		28-08-2003
		•	ÜS	2003163229		28-08-2003
· ·		•	ÜS	2003163230		28-08-2003
			US	2004002794		01-01-2004
			ÜS	2004019414		29-01-2004
			ÜS	2004039510		26-02-2004
DE 10720410		17 10 1000				
DE 19739410	С	17-12-1998	DE	19739410		17-12-1998
,			FR	2767761		05-03-1999
			GB 	2329082	А,В 	10-03-1999
US 5670845	A ·	23-09-1997	ΑU	3958393		18-11-1993
	•		CA	2133847		28-10-1993
	•		DE	69311328		10-07-1997
•		•	DE	69311328		29-01-1998
	•		EP	0634983		25-01-1995
•			ES	2105247		16-10-1997
		•	ΜŌ	9321035		28-10-1993
			JP	3470808		25-11-2003
	شه شدر سرد مانه Mil		JP	<u>7508693</u>	T	28-09-1995
US 5508689	Α	16-04-1996	DE	4392671		21-06-2000
			DE	4392671		01-06-1995
	:		WO	9325412		23-12-1993
			GB	2282941	A ,B	19-04-1995
			JP	7507909		31-08-1995
US 6485155	B1	09-01-2003	US	2003007266	A1	09-01-2003
			EΡ	1412801	A1	28-04-2004
			WO	03014802	Λ1	20-02-2003